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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,453A

DATE: 05/17/2002 P.6
TIME: 08:47:17

Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

4 <110> APPLICANT: Kim, Jungsuh P.
5 Starr, Douglas B.
6 Tam, Albert W.
7 Laurance, Megan E.
8 Michelotti, Emil F.
9 Velligan, Mark D.
10 Latour, Derek R.
11 Thomas, Rita L.
12 Kongpachith, Ana
13 Sheppard, Liana T.
14 Lim, Moon Young
15 Bruice, Thomas W.
18 <120> TITLE OF INVENTION: PROMOTERS FOR REGULATED GENE EXPRESSION
21 <130> FILE REFERENCE: 54600-8135.US00
23 <140> CURRENT APPLICATION NUMBER: US 09/875,453A
C--> 24 <141> CURRENT FILING DATE: 2002-05-06
26 <150> PRIOR APPLICATION NUMBER: US 60/209,549
27 <151> PRIOR FILING DATE: 2000-06-06
29 <160> NUMBER OF SEQ ID NOS: 246
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 1903
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 1
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40 gcgattgtgg gtgctcgggg agtggggggg ggcacgaccg taggtgctcc ctgctggggc 120
41 aacccatcgc tccccatgcg gaatccgggg gtaattaccc ccccaggacc cggaatatta 180
42 gtaatcctaa ttcccgccgg gggagggggc gcgggaggaa ttcaccctga aaggtggggg 240
43 tgggggggggt cgcactctgc tgtgagcacc ctggcgaaag ggagagggt ttttctatca 300
44 gttttctttg agcttttact gttaagaggg tacgggtggt tgatgacact gaactatatt 360
45 caaaaggaag taaatgaaca gttttcttaa tttggggcag gtactgtaaa aataaaaaaca 420
46 aaagttaaga cagtaaaatg tccttttatt ttttaatgca ccaaagagac agaacctgta 480
47 attttaaaaa ctgtgtatgt taatttacat ctgcttaagt ttgcgataat attggggacc 540
48 ctctcatgta accacgaaca cctatcgatt ttgctaaaaa tcagatcagt acactcgttt 600
49 gtttaattga taattgttct gaattatgcc ggctcctgcc agccccctca cgtcacgaa 660
50 ttcagtccca gggcaaattc taaaggtgaa gggacgtcta caccaccaac aaaaccaatt 720
51 aggaacttcg gtgggtctgt cccaggcaga ggggactaat atttcagca atttaatttc 780
52 ttttttaatt aaaaaaaatg agtcagaatg gagatcactg tttctcagct ttccattcag 840
53 aggtgtgttt ctcccggtta aattgccggc acgggaaggg aggggggtgca gttggggacc 900
54 cccgcaagga ccgactggtc aaggtaggaa ggcagcccga agagtctcca ggctagaagg 960
55 acaagatgaa ggaaatgctg gccaccatct tgggctgctg ctggaatttt cgggcattta 1020
56 ttttatttta ttttttgagc gagcgcagtc taagctgaaa tccctttaac ttttagggtt 1080

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57 acccccttgg gcatttgcaa cgacgcccct gtgcgcgcgga atgaaacttg cacagggggtt 1140
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59 atgaaaatga aagaagatgc agtcgctgag attctttggc cgtctgtccg cccgtgggtg 1260
60 ccctcgtggc gttcttggaa atgcgcccct tctgcgggct tggatatggg gtgtcgccgc 1320
61 gccccagtca ccccttctcg tggctcccc aggctgcgtg ctgtgcgcgc cttcctagtt 1380
62 gtccccact gcagagccac ctccacctca cccctaaat cccgggggac ccactcgagg 1440
63 cggaaggggc cccctgcacc cctcttccct ggcggggaga aaggctgcag cggggcgatt 1500
64 tgcatttcta tgaaaaccgg actacagggg caactccgcc gcagggcagg cgcggcgctt 1560
65 cagggatggc ttttgggctc tgcccctcgc tgctcccgcc gtttggcgcc cgcgccccct 1620
66 cccctgcgc ccgccccgc cccctcccg ctccattct ctgcccggct ttgatctttg 1680
67 cttaacaaca gtaacgtcac acggactaca ggggagtttt gttgaagttg caaagtcctg 1740
68 gagcctccag agggctgtcg gcgcagtagc agcagcagc agagtcgcga cgctccggcg 1800
69 aggggcagaa gagcgcgagg gagcgcgggg cagcagaagc gagagccgag cgcggacca 1860
70 gccaggaccc acagccctcc ccagctgccc aggaagagcc cca 1903
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73 <211> LENGTH: 32
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: primer
80 <400> SEQUENCE: 2
81 gcacgcgtgc tagccagctg ggccgccctt gt 32
83 <210> SEQ ID NO: 3
84 <211> LENGTH: 32
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: primer
91 <400> SEQUENCE: 3
92 atccatggaa gctttggggc tcttcctggg ca 32
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 34
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: primer
102 <400> SEQUENCE: 4
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105 <210> SEQ ID NO: 5
106 <211> LENGTH: 10
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapiens
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115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 6

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RAW SEQUENCE LISTING

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

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121 <210> SEQ ID NO: 7
122 <211> LENGTH: 16
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124 <213> ORGANISM: Homo sapiens
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127 cagtaacgtc acacgg 16
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 10
131 <212> TYPE: DNA
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 8
135 cctccagagg 10
137 <210> SEQ ID NO: 9
138 <211> LENGTH: 2395
139 <212> TYPE: DNA
140 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 9
143 gaattcactg gggagagcat tcaggaagat gacaacagga taataggtca acagagtaat 60
144 agagagggtcg ctaaaaataa actctaagaa gtattcagcc aaaactatta ttgagctaata 120
145 aatggtgggga tcaatttcag gggaaatattg tgggcagaag tcagactgta ggaggctggg 180
146 gatcaagaag ttgaggcaag gaggttggaac aacaactggt ttttcaagtt gggtcacgtga 240
147 acaaactctgt gaccttcagc ctcccccctcc tcgggtcttg gctgagctga ttgcagggcc 300
148 cctgcagctc tggcactctc aagttgtata aaactgacag tgcagaagtc cttgagccca 360
149 ttttggtctc catgataatt ttcccttcagt ggaactaagg ttacttgtct aagaacccaa 420
150 gcctctgact tgaactgatc aagttcatca cgtgcacgca agccacctac ttggcagatg 480
151 tagtgaaaag ctacatagat ctgggcccag gacaggatgc tggggcgtgg gagggggaaga 540
152 aagcagggtgc taactatata gatagcatgc ctatcagagc agtttttacg tttcctatatt 600
153 gtctctcaaa acaattttat aggaatcatc aaagcaattt tatcatgggt tctagaccag 660
154 gtttggtatg gaggtagggg tttccacagc tgcttttagt ttgaaggaaa tctgataaga 720
155 tgatgcaaaa gcccttcaga aatgtgtaat cctacacact tcagtgattc aattcattgt 780
156 caaaacttaa ggtgttttta atattgttat tgttcatttg gtttttaacca acatgtaagg 840
157 agttggcaat tatttggtta actcatgtct taggctaaat aaattccaaa aaattcagga 900
158 tgagaattgt ttattgctta acgtgtgtca aattttcttc atgcacatct ttattagatc 960
159 ttcacagcaa cctacaggat aagcaagaca ggtgcaagtg cctccttttg gtatgaggaa 1020
160 actgagggtct aaagagatga agtgatttgc ccaaggctca tagcaattta ttggtagagc 1080
161 aaagactaga attctcttaa ctgcagccta ttttccctat tctgaactgt tacatcagca 1140
162 tcaacaatta tctaattgat tggaaacagt tacacaggca gcttagctac gtcgaagtcac 1200
163 gatttttact ttaacttcaa ttccagagtc ttggcctgat ttccctcaag accctactta 1260
164 tcttttggtt tggaaaattt atttttcttg cattatcttt ccagctaaat tttatttaat 1320
165 aacctcagc atgtttttt tgotttatgc catgtagact tgacctgaaa acctgccagg 1380
166 ctttcattga gtttagtgat taaagaagta aagttctgag aagcaattag ttgatgggac 1440
167 accagtcata aaatcaatcc aaacttttgt tgacatgtgt ttctttctcc atataccagg 1500
168 ttcccgcttc gtattagtaa gattgaaatt gaaataagtc tattgctggg ggatgaattt 1560
169 gtcactttcc ttgaaactgg tgaacccaaa aagttagaca gtgataggaa aatactgcca 1620
170 ttgtctgtta agaagtctat gacatttcaa ggcaagaatg aatatatgga agaagaaact 1680
171 tgtttcttct ttacttacia aaaggaaagc ctggaagtga atgatatggg tataattaaa 1740
172 aaaaaaaaaa aaacacaaaa acctttacgt aacgttttgc tgggagagaa gactacgaag 1800
173 cacattttcc aggaagtgtg ggctgcaacg attgtgcgct cttaaactaat cctgagtaag 1860

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174 gtggccactt tgacagtctt ctcatgctgc ctctgccacc ttctctgccga gaagatacca 1920
175 tttcaacttt aacacagcat gatcgaaaca tacaaccaa cttctccccg atctgcggcc 1980
176 actggactgc ccacagcat gaaaattttt atgtatttac ttactgtttt tottatcacc 2040
177 cagatgattg ggtcagcact ttttgctgtg tatcttcata gaaggctgga caaggtaaga 2100
178 tgaaccacaa gcctttatta actaaatttg gggtccttac taattcatag gttggttcta 2160
179 cccaaatgat ggatgatggt agaaaccaa tagaagaatg gtcttggtgc ataatgtttg 2220
180 ttccctagtc aatgaactct catattcttg tctctggtta ggatcttggg atctggagtc 2280
181 agactgcctg ggctcaaadc ttggctctgc ccataccatc tctgttatcc tggggcaagt 2340
182 gcctcagttt ccacatctga gaaatgggga tggtagtggg gtccatttca tagat 2395
184 <210> SEQ ID NO: 10
185 <211> LENGTH: 36
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: primer
192 <400> SEQUENCE: 10
193 ttatgatacc tcgaggggag agcattcagg aagatg 36
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 36
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: primer
203 <400> SEQUENCE: 11
204 tgaatcacga agcttttgga tcttctggca gagaag 36
206 <210> SEQ ID NO: 12
207 <211> LENGTH: 24
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 12
212 gatgaatttg tcaacttctt tgaa 24
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 20
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 13
220 gacatttcaa ggcaagaatg 20
222 <210> SEQ ID NO: 14
223 <211> LENGTH: 35
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 14
228 acatttcaag gcaagaatga atatatggaa gaaga 35
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 37
232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
235 <400> SEQUENCE: 15
236 tacgaagcac attttccagg aagtgtgggc tgcaacg 37

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RAW SEQUENCE LISTING

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

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238 <210> SEQ ID NO: 16
239 <211> LENGTH: 250
240 <212> TYPE: DNA
241 <213> ORGANISM: Hepatitis B virus
243 <400> SEQUENCE: 16
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245 aggactcttg gactctcagc aatgtcaacg accgaccttg aggcatactt caaagactgt      120
246 ttgttttaaag actgggagga gttgggggag gagattaggt taaaggcttt tgtactagga      180
247 ggctgtaggc ataaattggg ctgcgcacca gcaccatgca actttttcac ctctgcctaa      240
248 tcactctcttg                                     250
250 <210> SEQ ID NO: 17
251 <211> LENGTH: 12
252 <212> TYPE: DNA
253 <213> ORGANISM: Hepatitis B virus
255 <400> SEQUENCE: 17
256 gactgtttgt tt                                     12
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 12
260 <212> TYPE: DNA
261 <213> ORGANISM: Hepatitis B virus
263 <400> SEQUENCE: 18
264 aggactcttg ga                                     12
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 15
268 <212> TYPE: DNA
269 <213> ORGANISM: Hepatitis B virus
271 <400> SEQUENCE: 19
272 tacttcaaag actgt                                     15
274 <210> SEQ ID NO: 20
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: Hepatitis B virus
279 <400> SEQUENCE: 20
280 tacttcaaag actgtttggt taa.                         23
282 <210> SEQ ID NO: 21
283 <211> LENGTH: 15
284 <212> TYPE: DNA
285 <213> ORGANISM: Hepatitis B virus
287 <400> SEQUENCE: 21
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291 <211> LENGTH: 156
292 <212> TYPE: DNA
293 <213> ORGANISM: Hepatitis B virus
295 <400> SEQUENCE: 22
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297 atggaaggcg ggtatattat ataagagaga aacaacacat agcgcctcat tttgtgggtc      120
298 accatattct tgggaacaag atctacagca tggggc           156
300 <210> SEQ ID NO: 23

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/17/2002
PATENT APPLICATION: US/09/875,453A TIME: 08:47:18

Input Set : A:\54600-8135.US00-SEQLIST.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:160; N Pos. 7

VERIFICATION SUMMARY

DATE: 05/17/2002

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1041 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1045 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:81
L:1056 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1061 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:82
L:1835 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1839 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:160
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0